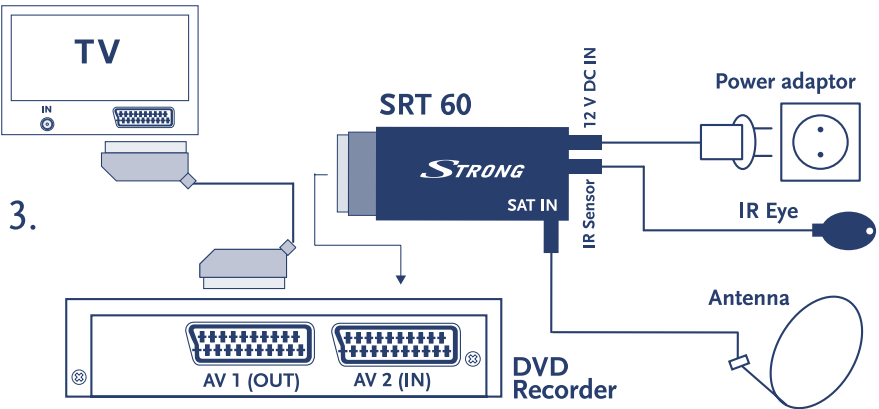
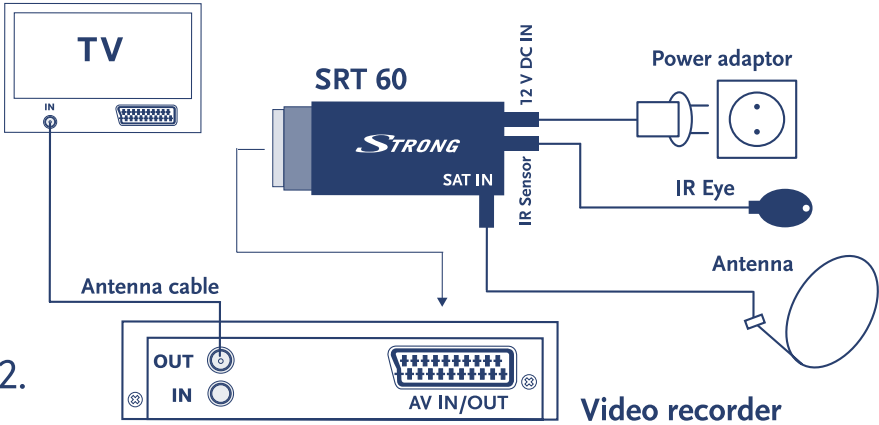
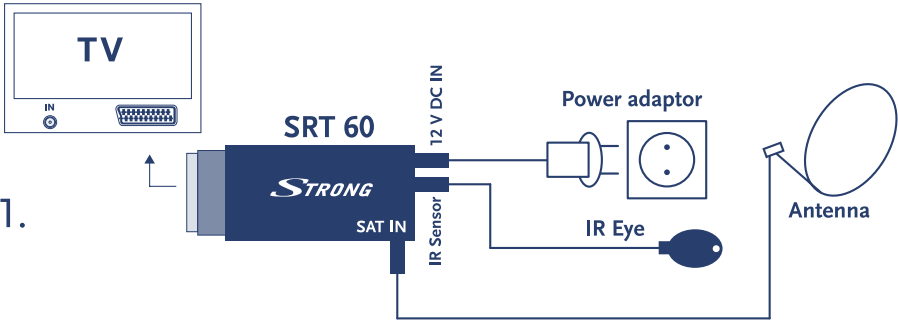


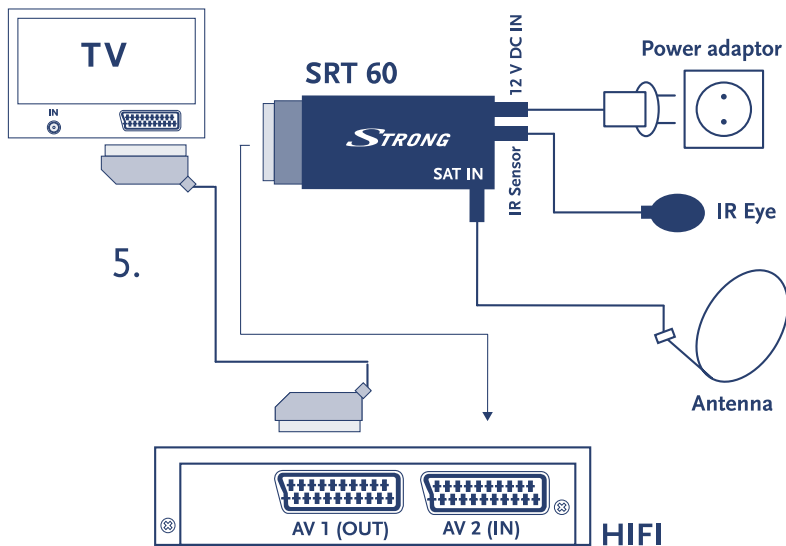
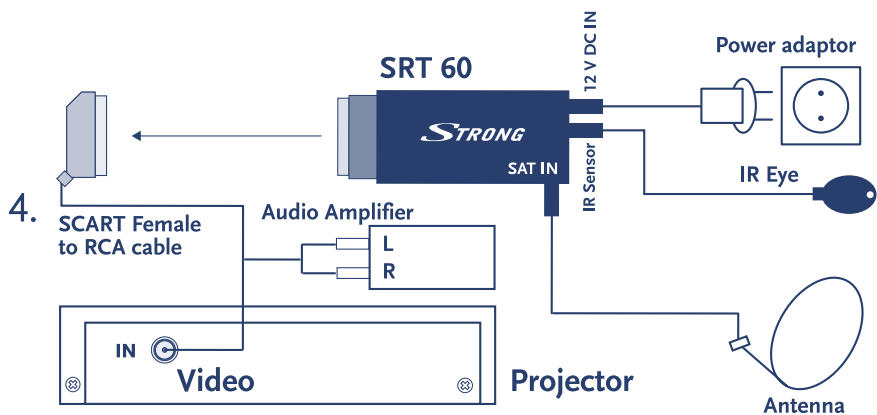


Digital Free-To-Air Satellite Receiver SRT 60

User Manual

SRT 60





1. Connection SRT 60 to TV
2. Connection SRT 60 with VCR
3. Connection SRT 60 to DVD Recorder
4. Connection SRT 60 to Projector
5. Connection SRT 60 to HIFI

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1.0 SAFETY INSTRUCTIONS

TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.



CAUTION: To reduce the risk of fire and electric shock, do not remove the cover (or back) of the unit. Refer servicing only to qualified service personnel.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operation and servicing instructions in the literature accompanying the appliance.

Read the following instructions carefully

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT AND FULLY INSERT.

The apparatus shall not be exposed to dripping or splashing, and that no objects filled with liquids, such as vases, shall be place on the apparatus.

IMPORTANT SAFEGUARDS

In addition to the careful attention devoted to quality standards in the manufacture of your video product, safety is a major factor in the design of every instrument. However, safety is your responsibility, too. This sheet lists important information that will help to assure your enjoyment and proper use of the video product and accessory equipment. Please read them carefully before operation and using your video product.

INSTALLATION

1. Read and Follow Instructions - All the safety and operation instructions should be read before the product is operated. Follow all operating instructions.
2. Save Instructions – Save all safety and operating instructions for future reference.
3. Heed Warnings – Read carefully and follow all warning labels on the product and those described in the instructions.
4. Grounding, Polarization – If this product is used with a specified AC adapter, the adapter may be equipped with a polarized alternating current line plug.
This product may be equipped with a polarized alternating -current line plug. This plug will fit into the power outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. To prevent electric shock, do not use this polarized plug with an extension cord, receptacle, or other outlet unless the blades can be fully inserted without blade exposure. If you need an extension cord, use a polarized cord.
5. Power Sources - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your video dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
6. Overloading - Do not overload wall outlets or extension cords as this can result in a risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard. Periodically examine the cord, and if its appearance indicated damage or deteriorated insulation, have it replaced by your service technician.
7. Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
8. Ventilation - Slots and openings in the case are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or heat register. This product should not be placed in a built-in installation such as a book case or rack, unless proper ventilation is provided or the product manufacturer's instructions have been followed.
9. Attachments - Do not use attachments unless recommended by the product manufacturer as they may cause hazards.
10. Water and Moisture - do not use this product near water for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool and the like. Caution: Maintain electrical safety. Power line operated equipment or accessories connected to this unit should bear safety certification mark on the accessory itself and should not be modified so as to defeat the safety features. This will help avoid any and should not be modified so as to defeat the safety features. This will help avoid any potential hazard from electrical shock or fire. If in doubt, contact qualified service personnel.
11. Accessories - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult as well as serious damage to the product. Use this product only with a cart, stand, tripod, bracket, or table recommended

- by the manufacturer' or sold with the product. Any mounting of the product should follow the manufacturer's instructions and use of a mounting accessory recommended by the manufacturer.
- 11a. A product and card combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn. Note to CATV system installer. This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.
 12. Outdoor Antenna Grounding - If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984 (Section 54 of Canadian Electrical Code, Part 1) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
 13. Power Lines - An outside antenna system should not be located in the vicinity of overhead power lines, other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching or approaching such power lines or circuits, as contact with them might be fatal. Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer.

Use

14. Cleaning - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
15. Objects that may touch dangerous voltage points or "short-out" parts could result in a fire or electric shock. Never spill liquid of any kind on the product.
16. Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power line surges.

Service

17. Servicing - Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
18. Conditions Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power-supply cord or plug is damaged.
 - B. If liquid has been spilled, or objects have fallen into the product.
 - C. If the product has been exposed to rain or water.
 - D. If the video does not operate normally by following the operating instructions. Adjust only those controls that are covered by operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

- E. If the product has been dropped or cabinet has been damaged.
- F. When the product exhibits a distinct change in performance-this indicates a need for service.
- 19. Replacement Parts - When replacement parts are required, have the service technician verify that the replacements he uses have the same safety characteristics as the original parts. Use of replacements specified by the product manufacturer can prevent fire, electric shock, or other hazards.
- 20. Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks recommended by the manufacturer to determine that the product is in safe operating condition.
- 21. Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that products heat.

Safety Warnings

1. The normal operating temperature of the digital receiver is between 0 °C and 40 °C
2. Please prevent the receiver from operating in dusty conditions.
3. The receiver shall be operated in ventilated environment away from heat sources. No objects filled with liquids, such as vases, shall be placed on the unit. The receiver shall not be exposed to dripping or splashing. Should this happen, disconnect your receiver from the main and consult your dealer.
4. Do not open or disassemble the outer chassis in order to avoid the danger of electric shock and damaging to the receiver. Opening the chassis will also void the warranty.
5. The antenna connected to the receiver shall be equipped with anti-shock device from lightning. If the mains plug or an appliance coupler is used as the disconnected device, the disconnected device shall remain readily operable.
6. if the receiver is inoperative, please consult the Customer Support.

This receiver has been manufactured to satisfy international safety standards. Please read the following recommended safety precautions carefully.

MAINS SUPPLY: 100 - 240 V ~ 50/60 Hz

POWER ADAPTER DC 12 V

OVERLOADING: Do not overload wall outlets, extension cords or adapters as this can result in fire or electrical shock.

LIQUIDS: Keep liquids away from the receiver.


CLEANING: Before cleaning, disconnect the receiver from the wall socket. Use a cloth lightly dampened with water (no solvents) to clean the exterior.

VENTILATION: Do not block the receiver ventilation holes. Ensure that free airflow is maintained around the receiver. Never store the receiver where it is exposed to direct sunlight or near heating equipment e.g. a radiator. Never stack other electronic equipment on top of the receiver. Place the receiver at least 30 mm from the wall.

ATTACHMENTS: Do not use any attachment that is not recommended by the manufacturer; it may cause a hazard or damage the equipment.

CONNECTION TO THE SATELLITE DISH AND TV:

Connect all components before plugging any power cords into the wall outlet. Always turn off the receiver, TV and other components before you connect or disconnect any cables.




- SERVICING:** Do not attempt to service this product yourself. Any attempt to do so will make the warranty invalid. Refer all servicing to a qualified service agent.
- LIGHTNING:** If the receiver is installed in an area subject to intense lightning activity, protection devices for the receiver mains connector and modem telephone line are essential. The individual manufacturer's instruction for safeguarding other equipment, such as TV set, Hi-Fi, etc., connected to the receiver must also be followed during lightning storms.
- GROUNDING:** CATV cable **MUST BE EARTHED**. The grounding system must comply with SABS 061.
-  **NOTE:** Dispose the used batteries at designated place for environment protection

1.1 Equipment Set-up

We recommend you consult a professional installer to set up your equipment. Otherwise, please follow the instructions below:

- Refer to the user manual of your TV and your antenna
- Make sure that the SCART cable and outdoor components are in a good condition and the SCART connections are well shielded

This manual provides complete instructions for installing and using this receiver. The following symbols will serve as follow.

-  **WARNING:** Indicates warning information.
-  **TIPS** Indicates any other additional important or helpful information.
-  **MENU** Represents a button on the remote control or the receiver (**Bold Character**)
- Move to* Represents a menu item within a window. (*Italic Character*)

1.2 Features and accessories

- For all* digital Free-To-Air TV and Radio programmes via satellite (e.g. Astra, Hot Bird)
- Satellite Receiver for direct connection to SCART connector (TV, VCR, DVD, Projector, HIFI)
- Remote Control operates receiver via Infrared Sensor Eye
- Set-up support for first time installation
- Quick and easy installation & user-friendly menu
- Excellent Audio- and Video quality
- 3 000 channels memory capacity
- Electronic Programme Guide (EPG) for present / following event information and up to 4 days for on screen programme information
- 6 Favourite lists for both TV and Radio programmes
- 10 Timers with advanced timer function
- Multilingual OSD on screen display menu
- Support Teletext via OSD and VBI
- Multi-lingual subtitling and audio track support
- Software update via satellite (OTA)
- Parental lock function for menu and selectable per channel

- User-friendly Remote Control
 - Low power consumption
 - Automatic and manual channel scan options
 - 12 V mains supply for usage with camping caravans or houseboats (Car cigarette lighter adapter optional)
 - **Connections:** SAT IN, IR-Eye, Power Supply
- *subject to local signal conditions

Accessories:

- Remote control
- IR-Eye
- SCART Cable
- Power adaptor 230V AC to 12V DC / 2A

2.0 CONNECTION

1. **SAT IN** - Connection for satellite antenna.
2. **IR IN** – Connection for remote control IR-eye.
3. **DC IN** – Power supply Adapter 12V DC in-jack.
4. **Scart plug** - for connecting your receiver to your TV set

3.0 REMOTE CONTROL

Remove the battery compartment cover and load two AAA (UM-4 or R03) batteries. Make sure that the batteries have been inserted in the correct polarities matching to the symbols +, - marked in the battery compartment. Close the battery compartment cover. If replacing of batteries is necessary, replace both batteries. Do not mix new and used batteries otherwise, the operation lifetime will be much shorter than normal. Remove the batteries if the unit will not be used for a prolonged period of time.

The remote control transmits a directional infrared beam. Be sure to aim the remote control directly at the infrared sensor of the unit during operation. If the sensor has been covered, the sensor will not respond. The sensor may not be able to receive the remote signal when it is exposed to direct sunlight or a strong artificial light (fluorescent or strobe light). In this case, change the direction of the light or reposition the unit to avoid direct lighting.

BE ENVIRONMENTALLY FRIENDLY

Do not dispose batteries as normal rubbish. Please dispose batteries following the Government's regulation.



1. **Power On/Standby** (Switch to ON/STANDBY mode)
2. **Numeric entry** (Enter numeric values and to select the channel directly by entering it's number)
3. **FAV** (Open up Favourite list)
4. **SAT** (Open Satellite list)
5. **EPG** (Open up Electronic Program Guide menu)
6. **EXIT** (Exit from menu)
7. **RED** (information onscreen when to use)
8. **GREEN** (information onscreen when to use)
9. **YELLOW** (to activate Subtitle)
10. **BLUE** (information onscreen when to use)
11. **MENU** (Open up menu)
12. **CH▲/CH▼** select channels or **UP/DOWN** navigation in menu
13. **VOL- or VOL+** to adjust sound or **LEFT/RIGHT** navigation in menu
14. **OK** to enter the selected
15. **MUTE**
16. **INFO** (Press for current channel information)
17. **AUDIO** (Select audio: Left / Right /Stereo / Mono)
18. **▲▼** (Page up and down)
19. **TV/AV** (Switch between Receiver and TV)
20. **BACK** (switch to previous channel)
21. **TV/RADIO** (Switch between TV and Radio)

4.0 GETTING STARTED

4.1 Connecting to TV Set and Switching-On

- Connect the Antenna cable from your dish to the Sat in connector of the receiver.
- Connect the receiver scart plug to the scart input of your TV set. You can use the enclosed adapter cable.
- You can switch on your TV, plug in the power adapter and switch on your receiver if you press the **POWER ON/STANDBY** button on remote control.
- If TV set does not turn automatically to the scart input, please select this input with the **AV** key, or similar on your TV remote control.

4.2 First Time Installation

Set Up Wizard:

The Installation Wizard will appear on screen when you power on receiver for the first time.

It is recommended that you do first time installation following Installation Wizard step by step. It will help you easily achieve system configuration and channel installation. If you are advanced user then you can skip wizard and press the **MENU** button and set-up channels using *User Installation* menu described in point 5.4.

4.2.1 Language Selection

Select the language of your choice with **Up/Down** buttons and press **OK** to confirm. The SET UP WIZARD menu will appear. It describes functional buttons that you should use during installation. Once you read information press **OK** button to continue.

4.2.2 Satellite Selection

The Installation Wizard preconfigured for easy installation of Astra 19.2°E or Hotbird 13°E. For these satellites LNB configuration is predefined as Universal LNB connected to the receiver via DiSEqC 1.0 switch input 1. If your dish is aimed to Astra 19.2°E or Hotbird 13°E then select the corresponded satellite and follow further installation steps described in point 4.2.3. If your dish is aimed to another satellite or you have multiple dish installation then select *OTHER* to proceed to *Antenna Setup* menu (see point 5.4.1). Set the correct satellite and press the **BLUE** button to enter *Channel Search* menu, where you also can adjust your antenna to a maximal reception level using the strength and quality info banner (see point 5.4.2).

4.2.3 Scan Mode

After selection of Astra 19.2°E or Hotbird 13°E *Scan Mode* menu will appear. You can now select one of the two options: *Preinstalled Channels* (only preinstalled channels will be installed) or *Satellite Scanning* (all free channels from the chosen satellite will be scanned and installed).

4.2.4 Wizard-Antenna Adjustment

After one Scan Mode has been confirmed *Wizard-Antenna Adjustment* menu will appear. Adjust your dish position in small steps until the signal strength and quality bars turn green.

Try to reach the maximum possible strength and quality level. Once you are sure the signal cannot be improved, fix the dish on this position and press **OK** on your remote control to start the channel search. After channel search has been finished, the first saved channel will be displayed on screen.

5.0 MAIN MENU

In the Main Page menu you can find *Channel Manager*, *Program Guide*, *Timer functions*, *User Installation* and *Receiver information*.

A short Explanation how you can navigate through the OSD*-Menu.

* On Screen Display

MENU: This Button opens in TV/Radio Mode the Main Menu.

CH+ / CH-: With these buttons you can navigate Up/Down.

VOL- / VOL+: With these buttons you can navigate Left/Right, or select settings in different submenus.

OK: Pressed in TV/Radio Mode will call up the Channel List. In OSD mode it opens submenus and confirms the selection.

EXIT: Press it to go one step back in Menu until TV/Radio Mode is achieved.

NOTE: Your settings will always be saved after leaving OSD mode.

NOTE: To navigate in the channel manager additionally to the **UP/DOWN** buttons can also be used the **VOL+/-** and **SCOLL UP/DOWN** buttons.

5.1 Channel Manager

For building favourite groups, moving, locking or deleting channels.

1. Press the **MENU** button to enter the “Main Page”.
2. Use **UP/DOWN** buttons to select “Channel Manager” and press **OK**.
3. Use **UP/DOWN** buttons to select “TV channels” or “Radio channels” for modifying one of this lists. Press **OK** to confirm.
4. Press the **RED** “Delete” button to delete channels. Use **UP/DOWN** buttons to select a channel to delete and press **OK** to confirm (you can reverse the confirmation if you press **OK** once again). Now press **EXIT** for deleting. Confirm the safety question with **OK** to delete the chosen channel/s.
5. Press the **GREEN** “Favourite” button to make a Favourite channel list. Use **UP/DOWN** buttons to select a channel and press **OK** to confirm.
6. Press the **GREEN** “Favourite” button again you can select the next one from the 6 favourite groups.
7. Press the **YELLOW** “Move” button to enter the sub-menu for moving channels in channel list. Use **UP/DOWN** buttons to select a channel and press **OK** to confirm. Use the **UP/DOWN** buttons to move the channel to the desired position and press **OK** to confirm the new position.
8. Press the **BLUE** “Lock” button to lock channels with PIN code. Use **UP/DOWN** buttons to select a channel and press **OK** to confirm.
Note: To be able to lock channels Parental Lock must be set to “ON”. Please see the further point 5.4.5 “Parental Lock” in “User Installation” below.
9. Press **EXIT** button to quit and save setting.

5.2 Program Guide

Pressing the **EPG** button on remote control opens the electronic program guide, which provides the program information (depending on availability from broadcaster) You can also activate it via the menu:

1. Press the **MENU** button to enter the “Main Page”.
2. Use **UP/DOWN** buttons to select “Program Guide”. Press **OK** to enter this menu.
3. Use **LEFT/RIGHT, UP/DOWN** buttons to select program or channel.
4. Press the **RED** “Timer” button to set a timer function from selected program.
5. Press the **GREEN** “- 6” button to go direct 6 hours back in time line.
6. Press the **YELLOW** “+ 6” button to go direct 6 hours forwards in time line.
7. Press the **BLUE** “Detail” button to get extended program information.
8. Press **EXIT** button to quit and return.

5.3 Timer

It has two options described below.

1. Press the **MENU** button to enter the “Main Page”.
2. Use **UP/DOWN** buttons to select “Timer”. Press **OK** to enter.
3. Use **UP/DOWN** buttons to select Time Adjust or Time Reservation.

5.3.1 Time Adjust

For setting time and date:

1. Use **UP/DOWN** buttons to select.
2. Use **LEFT/RIGHT**, **OK** and **UP/DOWN**, or **Numeric** keypad to change settings.
3. Press **EXIT** button to quit and save Setting.

5.3.2 Time Reservation

In this menu you can program a timer to switch to a certain channel at the desired time. Available repeat-rates are: *One Time*, *Daily*, *Weekly* or *Monthly*. Use **UP/DOWN** buttons to select.

1. Use **LEFT/RIGHT**, **OK** and **UP/DOWN**, or **Numeric** keypad to change settings.
2. Press **EXIT** button to quit and save Setting.

5.4 User Installation

It contains six submenus which are described below:

1. Press the **MENU** button to enter the "Main Page".
2. Use **UP/DOWN** buttons to select "User Installation". Press **OK**.
3. Use **UP/DOWN** buttons to select "Antenna Setup", "Channel Search", "System Settings", "Software Download", "Parental Lock" or "Factory Default".

5.4.1 Antenna Setup

- **Antenna:** You can set up to 16 different antenna configurations combined with different satellite settings.
- **Satellite:** Selection of the satellite.
- **LNB type:** The default setting to Universal LNB. Configure your LNB depending on your installation.
- **LNB freq. 1 and 2:** The following three fields are only activated if the chosen LNB is not Universal or LNB F. In this case you have to enter the frequencies of Local Oscillator shown on your LNB.
- **22kHz Tone:** This signal is automatically switched depending on the used LNB. Leave this setting configured as "Auto", in order to prevent malfunctioning.
- **DiSEqC:** If you use a DiSEqC 1.0 satellite switch please select the port in use. If not please set to "None".
- **LNB Power:** The LNB supply voltage should always be switched to *ON*. Only select the option LNB voltage OFF if this is expressly stated in the instructions of your satellite system!
- **Sat Name Edit:** If you want to edit the name of satellite you can use the **YELLOW** button. Keypad Dialog will appear. Enter the new name and press **OK** to confirm.

5.4.2. Channel Search

In this menu you can also select a transponder with signal and adjust your antenna to a maximal reception level by using the strength and quality info banner.



NOTE: To be able to search channels you have at first to configure your antenna in Antenna Setup submenu. Please see point 5.4.1.

Procedure:

- **Antenna:** Select one of the 16 antenna configurations.
- **Satellite:** Press the **LEFT/RIGHT** buttons to select the desired satellite or the **OK** button to display the drop-down menu. **NOTE:** If the desired satellite is neither in the list nor configured, it is possible to add a new satellite position in the *Antenna Setup Menu*.

- **Transponder:** Here it is possible to select a stored transponder from the chosen satellite. This is necessary if you only wish to search for a certain transponder. You can also edit a new transponder here. Press **OK** and select “NewTP” in the list. Now the values for *Frequency*, *Symbol Rate* and *Polarization* are editable. The new Transponder will be added in the end of the list.



NOTE: If the desired satellite is neither in the list nor configured, it is possible to add a new satellite position in the *Antenna Setup Menu*.

- **Edit mode.** Use the **RED** “Edit mode” button to edit a certain transponder. Now you can change the preset values of this transponder (frequency, symbol rate or polarisation). The gray fields are activated and new values can be entered. These values can be obtained from the satellite operator or on www.lyngsat.com.



NOTE: This option is helpfully/necessary if the values from a transponder are changed by the satellite operator/ broadcaster.

- **Set PID.** Use the **GREEN** “Set PID” button only if you want to install one certain channel from the above chosen Transponder. Each program of a transponder has a different address for picture, sound and data. After entering them and confirming with **OK**, press **OK** once again to search. The found channel will be stored at the end of channel list.
- **Sat Name Edit.** Use the **YELLOW** button to edit the name of satellite. Keypad Dialog will appear. Enter the new name and press **OK** to confirm.
- **Start search run:** To start the search, go to Scan “Sat.” or press the **LEFT/RIGHT** buttons to select further search options:

Scan “TP”: It will be searched for new channels on the displayed transponder only.

Scan “Network”: Some satellites, e.g. Astra and Hotbird partially, broadcast a **Network Information Table (NIT)**. This is an up-to-date and complete channel table which can be read by the receiver.

Press **OK** button to start searching process. Channel Search progress will be shown on screen. When scan process is finished all found channels will be stored in the memory. You can now choose between two options: “View” – to show the found channels, or “Exit” – to get back to the search menu. Choose one of them and press **OK** to confirm.

5.4.3 System Setting

For setting the features see described below:

1. Use **UP/DOWN** buttons to select “OSD Language”, “Audio Language”, “Auto Subtitle”, “LNB Power”, “Screen Format”, “Video Output”, “TV Type”, “Start ON Channel” or “Passive Standby”.
 2. Use **LEFT/RIGHT** or **OK** and **UP/DOWN** buttons to change settings.
 3. Press **EXIT** button to quit and save Setting.
- **OSD Language:** Language selection for the onscreen menu.
 - **Audio Language:** Press **OK** button to set the sequence of certain languages you wish to hear in case of multilingual programmes.
 - **Auto Subtitle:** Press **OK** button to select your favourite subtitle languages. If set to *ON* and broadcaster provides one of them, then subtitles in this language will appear automatically. If set to *OFF* and broadcaster provides subtitles, they will not appear automatically. Then you can

activate it by pressing the the yellow **SUB** button and choose one of the provided languages.

- **Screen Format:** You can choose between following formats: 4:3, 16:9 and 4:3 Letterbox.
- **Video Output:** You can select the output signal at the scart plug between RGB and CVBS.
- **TV Type:** To select the video standard: PAL or NTSC.
- **Start On Channel:** Press **OK** button to select the channel which should be shown every time you switch on the receiver. With the setting to "*None*" always the last viewed channel will be displayed when you switch on the receiver.

5.4.4 Software Download via Satellite

Here you can check the availability of software updates and/or install it.

1. Press the **MENU** button to enter the "*Main Page*".
2. Use **UP/DOWN** buttons to select "*User Installation*" and press **OK**.
3. Use **UP/DOWN** buttons to select "*Software Download*" and press **OK**.
4. Select "*Auto Mode*"
5. Press **OK** button to upgrade and then the receiver will search for new software.
6. If new software is found you are informed on screen.
7. Press **OK** to install the new software, your receiver will reboot during this process.



WARNING: **DO NOT** switch off or remove the power cord during this process.

5.4.5 Parental Lock

Here you can activate two functions: to lock channels and to lock access into the User Installation menu.

1. Enter this Menu with PIN code (Default 0000)
2. Use **UP/DOWN** and **LEFT/RIGHT** buttons to select "*Parental Lock*" to "*OFF*" or "*ON*".
3. Use **UP/DOWN** and **LEFT/RIGHT** buttons to select "*Install Lock*" to "*OFF*" or "*ON*".
4. Use **UP/DOWN** buttons to select "*New Password*" (4 digits), to enter a new PIN code.
5. Receiver will go automatic to next step, confirm again "*New Password*" (4 digits) and press **EXIT** button to quit and save settings.

5.4.6 Factory Default



NOTE: If you use this function all channels and settings will be deleted. The receiver will return to basic factory default settings.

1. Enter this Menu with PIN code (Default 0000).
2. Attention message appears.
3. Here you can cancel and go one step back to main menu, or confirm factory reset to be done. The receiver will return to factory default settings.

5.5 Receiver Information

Here you will find all the important information regarding the software and hardware of your receiver.

6.0 OPERATION

6.1 Standby/Power button

Press **STANDBY/POWER** button, to switch ON your receiver.

If you press **STANDBY/POWER** button again it is set to Standby mode.

6.2 Changing Channels

1. Stepping through the channel list:
To move through the channel list, press the **CH- / CH+ (UP/DOWN)** keys on the remote control.
2. Selection by on-screen channel list:
Press **OK** on your remote to select the required channel directly from on screen channel list.
 - Press **UP/DOWN** buttons to select channel step by step.
 - Press **▲ ▼** buttons to scroll in the channel list in steps of 10 channels.
 - Press **OK** button to switch to the desired channel.

6.3 Volume Control

The volume level of the receiver can be altered with the **VOL- / VOL+ (LEFT/RIGHT)** buttons on the remote control.



VOL



NOTE:

- The volume level selected will remain set, even when the receiver is turned off and on again, until it's altered.
- Press the the **MUTE** button to silence the sound from the receiver. The sound remains muted until the **MUTE** button is pressed again, the **VOL-** or **VOL+** button is pressed, or until the receiver is turned off and on again.

6.4 Language Selection

- Press the **AUDIO** button repeatedly you can select between different languages. If only one language is broadcasted, the button is without function.

6.5 Audio Mode

- Press the **BLUE** button repeatedly and you can select between different audio modes – “Left”, “Right” and “Stereo”.

6.6 Accessing the favourite channels

- Press **FAV** button
- Select one of the favourite list (each pressing of **FAV** button shows you the next list) and press **OK**.

6.7 Teletext

- Press **TEXT** button to view Teletext.
- Press **EXIT** to leave the Teletext.

6.8 Subtitle

- Press **YELLOW** “SUB” button to switch on subtitle support.
- Press **EXIT** to leave the subtitle function.

6.9 Displaying program information

You can read the current program information if you press the **INFO** button (or **OK** button twice) on the remote control.

- Press **RED** button for EPG Details of the running program. The info will disappear after 5 sec. or after pressing **INFO** button again.
- Press **GREEN** button to show detailed signal information. The info will disappear after 5 sec. or pressing **EXIT** button.

6.10 Edit Channel Name

Press **INFO** (or **OK** button twice) and then the **YELLOW** button to enter the submenu where you can edit the channel name. Keypad Dialog will appear. Enter the new name and press **OK** to confirm.

6.11 Switching between receiver and TV set

Press **TV/AV** button on your remote control to switch between receiver and TV set.

Note: When receiver is in standby mode (turned off), **TV/AV** button will not be active. In standby mode it will automatically change to TV set.

6.12 Switching between TV and Radio mode

Press **TV/RADIO** button on your remote control to switch between TV and radio channels.

A.1 TROUBLESHOOTING

In some region, the digital terrestrial signal may be weak. So you'd better use the antenna in which the booster was built, for watching the weak signal channels.

Problem	Possible cause	What to do
Standby light not lit on IR-eye	-Power supply unplugged - IR-Eye not well connected or defective	-Connect Power supply -Check connection of IR-Eye or try another one
No signal found	-Antenna is disconnected -Antenna is damaged/misaligned - Out of digital signal area	- Check aerial lead - Check aerial - Check with dealer/installer of the SAT System or call the Support Hotline

No picture or sound	<ul style="list-style-type: none">-Tuned to digital teletext channel-Bad reception-Channel has changed Transponder or Audio/Video data values	<ul style="list-style-type: none">-Reduce to another channel-Check Signal-Check according to satellite service or at www.strong.tv
The remote control unit (RCU) will not operate your receiver	<ul style="list-style-type: none">- Power supply unplugged- RCU not aimed correctly- IR-eye obstructed, not well connected or defective-RCU batteries exhausted	<ul style="list-style-type: none">- Connect Power supply- Aim RCU at IR-eye- Check for obstructions, connection of IR-Eye or try another IR-Eye-Replace the batteries
Incorrect information in the EPG	Loading data needs time	Try to reopen the EPG or change to another channel and back, have a little patience with it
Receiver doesn't respond (hung up)	Large amount of data	Disconnect the Power supply and wait a few seconds before connecting Power supply again.
Forgotten channel lock code		Re-install channels to cancel channel lock
Forgotten menu lock code		Contact help line

A.2. SPECIFICATIONS

Demodulator

Modulation: QPSK
Input Symbol Rate: 2 – 45 MS/s

Video Decoder

Profile level: MPEG-2 Main profile @ Main level
Input Rate: Max. 60 Mbit/s
Video Resolution: 720 x 576 pixels (PAL), 720 x 480 (NTSC)
Video Format: PAL / NTSC
Aspect Ratio: 4:3, 4:3 Letter Box, 16:9

Audio Decoder

MPEG Audio Layer I & II (MusiCam)

Sampling rate: 32, 44.1 and 48 KHz

Audio modes: Stereo, Joint Stereo, Mono, Dual Mono

Tuner

Input Frequency Range: 950 ~ 2150 MHz

Input Signal Level: -25 ~ -65 dBm

Input Connector: F Type

Input Impedance: 75 Ohm unbalanced

LNB Supply: 14.0 / 19.0 V (max. 350 mA)

LNB band Control: Frequency: 22 ± 4 KHz

Amplitude: 0.6 ± 0.2 V

DiSEqC Control: Version 1.0 compatible

Memory and System

Flash memory: 2 MByte Serial Flash

SDRAM: 16 MByte

Connectors

SAT IN (F Type)

1 SCART TV Plug (CVBS, RGB)

Power supply Adapter 12V DC in-jack

Connection IR-eye for remote control

General Data

Supply Voltage: 100 ~ 240 V AC, 50 / 60 Hz, 12 V DC

Power Consumption (max): 15 W

Standby Power Consumption: < 3 W

Operating Temperature: 5 ~ 45 °C

Storage Temperature: -10 ~ 65 °C

Operating Humidity Range: 10 ~ 90 %, Non-condensing

Net-weight: 0.13 kg (without Adapter)

Size (W x D x H) in mm: 138 x 57 x 20

A.3 ENVIRONMENTAL ISSUES

Strong is committed to reducing the impact of its products on the environment. To maximise the benefits of our design enhancements, your co-operation is required.

Electronic product recycling

Do not dispose of this product with your domestic rubbish.

At the end of its useful life, this product contains materials which when processed correctly can be recovered and recycled. By participating in the responsible recycling of this product you will be reducing the requirement for new raw materials and reducing the amount of material that would otherwise end up in landfill.

When you purchase a new, similar product your retailer may offer to take this old one off you. Alternatively, you can take it to your local recycling centre. Your retailer or local municipal authority will advise you of the collection facilities available for waste electronically products in your area. User of this service will be free to you.

Within the scope of the European legislation on Waste Electrical and Electronic Equipment (Directive 2002/96/EC valid as of August 2005) STRONG provides a recycling system free of charge for consumers to returning products after end of life. For more information about STRONG's environmental policy to you:

www.strong.tv - select "About us" and "Environmental Policy" from the submenu.



Packaging

When disposing of this product packaging, please ensure that it is recycled.

Packaging material is to be depolluted in waste separation.



Power Saving

To save power and money, please put the product into standby mode when not in use. We also recommend disconnection from mains supply when not in use for longer periods of time.



Batteries

Do not dispose of the batteries from your handset with your domestic waste.



Where they are available, participate in your local municipal or retailer collection schemes for spent batteries. Batteries discarded in landfill sites or incinerated increases the chances of pollutants being dispersed into the atmosphere.

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